

WHAT IS CLAIMED IS:

1. An integral router device, comprising:
 - a ROM configured to store programs when operating hardware related to the programs;
 - a RAM configured to provide an area for temporarily storing processing data;
 - a processor configured to process the processing data;
 - a LAN interface configured to connect with an external network to transmit and receive data;
 - a wireless card configured to switch format of transmitted data and transmit and receive data by means of an antenna.
2. The integral router device according to claim 1, wherein said RAM is one of the following:
 - synchronous dynamic random access memory (SDRAM), double duration rate random access memory (DDR RAM), direct RAM BUS DRAM (RDRAM) and synchronous link DRAM (SLDRAM).
3. The integral router device according to claim 1, wherein said ROM is one of the following:
 - flash ROM, erasable and programmable ROM (EPROM) and electrically erasable and programmable ROM (EEPROM).
4. The integral router device according to claim 1, wherein said processor could be a central processor unit (CPU).
5. The integral router device according to claim 1, wherein said antenna is one of the following:
 - a format of exposed outside a shell of the router and hided inside the shell of the router.
6. The integral router device according to claim 1, wherein said integral router device comprises an internal storage controller, an internal storage device, an internal storage controller and an external storage device.
7. The integral router device according to claim 6, wherein said internal storage controller is one of following interfaces to control the internal storage device: an integrated device electronic (IDE) interface, an IEEE-1394 interface and a universal serial bus (USB) interface.
8. The integral router device according to claim 6, wherein said external storage controller is one of the following interfaces to control the external storage device: an IEEE-1394 interface, a universal serial bus (USB) interface, an IR-infrared interface, a RF interface and an IEEE 802.22b/g interface.